

WHAT IS CLAIMED IS:

1. A backlight assembly comprising:

a receiving container including a bottom plate and sidewalls protruded from

5 edges of the bottom plate to form a receiving space;

a light exiting device disposed in the receiving space; and

a liquid crystal display panel supporting member including a first supporting member frame portion, a second supporting member frame portion, a first particle interceptor and a second particle interceptor, the first supporting member frame portion having an opening, an opening face formed in an internal face of the first supporting member frame portion to define the opening, and a connection groove carved from the opening face, the second supporting member frame portion being vertically extended from the first supporting member frame portion, the side face of the liquid crystal display panel that is to be mounted on the liquid crystal display panel supporting member facing the inner side face of the second supporting member frame portion, the second supporting member frame portion fixing the liquid crystal display panel, the first particle interceptor being formed along the top face of the first supporting member frame portion facing the bottom plate of the liquid crystal display panel, the first particle interceptor having at least two cut portions near the connection groove, the second particle interceptor being disposed between the cut portions to prevent particles from infiltrating into the first particle interceptor.

2. The backlight assembly of claim 1, wherein the second particle interceptor includes a first body sticking to the side face of the first particle interceptor, a second body extended from the first body and interposed between the

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cut portions, and a third body connected to the second body and being substantially parallel to the first body.

3. The backlight assembly of claim 2, wherein the second particle
5 interceptor has an H-shape.

4. The backlight assembly of claim 1, wherein the second particle
interceptor includes a first body sticking to the side face of the first particle
interceptor, and a second body extended from the first body and interposed between
10 the cut portions.

5. The backlight assembly of claim 4, wherein the second particle
interceptor has T-shape.

6. The backlight assembly of claim 1, wherein the second particle
15 interceptor having a shape of band sticks to the side face of the first particle
interceptor.

7. The backlight assembly of claim 1, wherein the second particle
20 interceptor comprises polyethyleneterephthalate (PET), and an adhesive material is
coated on a surface of the second particle interceptor.

8. The backlight assembly of claim 1, wherein the connection groove
combines with a protruded fixing portion of optical sheets.

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9. A backlight assembly comprising:

a receiving container including a bottom plate and sidewalls protruded from edges of the bottom plate to form a receiving space;

a light exiting device disposed in the receiving space; and

5 a liquid crystal display panel supporting member including a first supporting member frame portion, a second supporting member frame portion and a particle interceptor, the first supporting member frame portion having an opening formed in an internal face of the first supporting member frame portion, the second supporting member frame portion being vertically extended from the first supporting member
10 frame portion, the side face of the liquid crystal display panel that is to be mounted on the liquid crystal display panel supporting member facing the inner side face of the second supporting member frame portion, the second supporting member frame portion fixing the liquid crystal display panel, the particle interceptor being formed in a shape of a closed loop along a first face of the first supporting member frame
15 portion facing the bottom plate of the liquid crystal display panel, the particle interceptor preventing particles from infiltrating into the particle interceptor.

10. The backlight assembly of claim 9, wherein the particle interceptor corresponds to a particle intercepting protrusion formed on the first face of the first
20 supporting member frame portion in at least one row, and the particle intercepting protrusion includes a material having flowability.

11. The backlight assembly of claim 9, wherein the particle interceptor includes at least two rows of particle intercepting protrusions formed on the first face
25 being spaced apart from each other, and at least one row of particle intercepting

recess formed between adjacent particle intercepting protrusions.

12. The backlight assembly of claim 9, wherein the particle interceptor includes particle intercepting protrusions formed on the first face, and at least one or
5 greater number of particle intercepting recess formed on the particle intercepting protrusions.

13. The backlight assembly of claim 9, wherein the particle interceptor comprises silicon or rubber.

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14. A liquid crystal display apparatus comprising:
a receiving container including a bottom plate and sidewalls, the sidewalls protruded from edges of the bottom plate to form a receiving space;
a light exiting device disposed in the receiving space;
15 a liquid crystal display panel supporting member including a first supporting member frame portion, a second supporting member frame portion, a first particle interceptor and a second particle interceptor, the first supporting member frame portion having an opening, an opening face formed in an internal face of the first
supporting member frame portion to define the opening, and a connection groove
20 carved from the opening face, the second supporting member frame portion being vertically extended from the first supporting member frame portion, the side face of the liquid crystal display panel that is to be mounted on the liquid crystal display panel supporting member facing the inner side face of the second supporting member frame portion, the second supporting member frame portion fixing the liquid
25 crystal display panel, the first particle interceptor being formed along the top face of

the first supporting member frame portion facing the bottom plate of the liquid crystal display panel, the first particle interceptor having at least two cut portions near the connection groove, the second particle interceptor being disposed between the cut portions to prevent particles from infiltrating into the first particle interceptor;

5 a liquid crystal display panel assembly mounted on the first supporting member frame portion, the liquid crystal display panel assembly being fixed by the second supporting member frame portion; and

a chassis that fixes the liquid crystal display panel assembly.

10 15. A liquid crystal display apparatus comprising:

a receiving container including a bottom plate and sidewalls protruded from edges of the bottom plate to form a receiving space;

a light exiting device disposed in the receiving space to exit a light;

a liquid crystal display panel that converts the light into an image light;

15 a liquid crystal display panel supporting member including a first supporting member frame portion, a second supporting member frame portion and a particle interceptor, the first supporting member frame portion having an opening formed in an internal face of the first supporting member frame portion, the second supporting member frame portion being vertically extended from the first supporting member
20 frame portion, the side face of the liquid crystal display panel that is to be mounted on the liquid crystal display panel supporting member facing the inner side face of the second supporting member frame portion, the second supporting member frame portion fixing the liquid crystal display panel, the particle interceptor being formed in a shape of a closed loop along a first face of the first supporting member frame
25 portion facing the bottom plate of the liquid crystal display panel, the particle

interceptor preventing particles from infiltrating into the particle interceptor; and

a chassis received in the receiving container, the chassis covering edges of a top face of the liquid crystal display panel.

5 16. A liquid crystal display apparatus comprising:

a display panel that displays an image;

a lamp that provides a light to the display panel;

a receiving container that receives the display panel and the lamp ; and

10 a top chassis combined with the receiving container to fix the display unit in the receiving container, wherein a side face of the receiving container corresponds to a side face of the top chassis, the receiving container has a protruding portion being laterally protruded from a bottom plate of the receiving container, and the side face of the top chassis is mounted on the protruding portion.

15 17. The liquid crystal display apparatus of claim 16, wherein the protruding portion has a width greater than a thickness of the side face of the top chassis.

20 18. The liquid crystal display apparatus of claim 16, further comprising an adhesive material on the protruding portion of the receiving container, and wherein the adhesive material seals a contacting portion of the protruding portion and the side face of the top chassis

25 19. A device for forming a particle interceptor in a backlight assembly comprising:

a base body that supports a liquid crystal display panel supporting member including a first supporting member frame portion having an opening and supporting a liquid crystal display panel, and a second supporting member frame portion extended from the first supporting member frame portion to fix the side face of the liquid crystal display panel;

a dispenser having at least one nozzle to coat a material used for forming the particle interceptor in the first supporting member frame portion;

a supply member that provides the material to the dispenser; and

a transporting member that transports the dispenser to the first supporting member frame portion.

20. The device of claim 19, wherein the dispenser further comprises a compression roller to form a particle intercepting recess on the particle interceptor.

21. The device of claim 19, wherein the dispenser further comprises a charge-coupled device camera to change a moving direction of the dispenser according to a shape of the first supporting member frame portion